

# Daniel Xu

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## EDUCATION

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### University of California, San Diego

La Jolla, CA

*Bachelor of Science in Mathematics and Computer Science*

*Expected Graduation: June 2029*

- **GPA:** 4.0/4.0
- **Relevant Coursework:** Data Structures and Algorithms, Data Science, Object Oriented Programming, Systems Programming

## EXPERIENCE

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### Polylabs Inc.

Nov. 2025 – Present

*Software Engineer Intern*

*Palo Alto, CA*

- Implemented LinkedIn profile scraping using BrightData API and React Server Functions, achieving a 97% scrape success rate
- Utilized Supabase Auth and Redis to secure and rate-limit API endpoints, reducing unauthorized access by 100%
- Headed application containerization using Docker and orchestrated Blue/Green deployments on AWS EC2, achieving 100% uptime and reducing deployment time by 70%

### IEEE UCSD Student Branch

Jan. 2025 – Present

*Webmaster*

*La Jolla, CA*

- Delivered an internal officer onboarding site and CMS using Convex and TanStack Start used by 60+ current and incoming board members
- Integrate applications with Logto single-sign-on, achieving unified profile data across our digital ecosystem and decreasing administration effort by 30%
- Provide technical support to address any website issues, ensuring continuous infrastructure accessibility for 500+ members

### Symphonic Student Association at UCSD

Oct. 2025 – Present

*Webmaster*

*La Jolla, CA*

- Crafted an SEO-optimized Next.js landing page, boosting event awareness by 35% and onboarding 30+ new members through live PostgreSQL event queries and an automated mailing list
- Developed a custom membership dashboard, decreasing administrative workload by 50% and increasing member engagement by 30% using Next.js and Supabase
- Implemented search engine optimization strategies improving search visibility and organic traffic, achieving #1 search rank for main website on various search engine result pages and driving increased member registration

## PROJECTS

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### ScheduleSync

- Deployed a web application for academic planning, benefiting 100+ students by reducing Google calendar creation time from course schedules by 85% through LLM-driven automation
- Integrated LLM-assisted image analysis, increasing schedule creation accuracy by 50% using AI SDK and Gemini Developer API

### SSA Member Dashboard

- Designed, programmed, and launched a Next.js dashboard for 80+ members, automating event RSVP and resource management and reducing administrative workload by 50% within one quarter
- Implemented secure authentication and role-based access control (RBAC) with Convex Auth
- Integrated real-time data fetching using Convex Reactive Queries, ensuring data is always accessible to members

## TECHNICAL SKILLS

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**Languages:** Java, Python, C++, SQL, TypeScript

**Frameworks & Libraries:** React, Next.js, TanStack Start, Convex, Node.js

**Developer Tools:** Docker, GitHub Actions, Grafana